Holly Kyeore Han
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Earth and Planetary Sciences
Montreal, Quebec, Canada
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EDUCATION

- Doctor of Philosophy, September 2015-present (as of November, 2018)
  Department of Earth and Planetary Science
  McGill University, Canada

- Honours Bachelor of Science, June 2015
  Physics Specialist and Math Minor, Department of Physics,
  University of Toronto, Canada

RESEARCH

Graduate

- My research at McGill University during 2015-2017 was focused on modeling post-glacial sea-level changes in North America and interpreting geological records of the sea-level changes. My current research is focused on modeling the evolution of Northern Hemispheric ice sheet over glacial cycles, and understanding the associated interactions between the ice sheet - sea level - solid Earth.

  Supervisor: Prof. Natalya Gomez (McGill University)

Undergraduate

- Senior undergraduate research project, 2013 - 2014, University of Toronto
  Topic: The effect of the non-linear inertial term on numerical dynamo models
  Supervisor: Prof. Sabine Stanley (now at Johns Hopkins University)

- Geophysics summer fieldwork assistant, 2013, University of Toronto
  Topic: Measuring electro-resistivity on and under surface of Lake Ogilvie, Canada
  Supervisor: Prof. Bernd Milkereit

PUBLICATIONS (ACADEMIC)

- Pollard, D., Gomez, N., R.M. DeConto. and **Han. H.K.** Estimating modern elevations of Pliocene shorelines using a coupled ice sheet-earth-sea level model, *Journal of Geophysical Research: Earth Surface* (2018). dx.doi.org/10.1029/2018JF004745
- **Han. H.K.,** Gomez. N. The impact of water loading on postglacial decay times in Hudson Bay, *Earth Planet. Sci. Lett.* (2018), 489, 1-10. https://doi.org/10.1016/j.epsl.2018.02.043.
- Pollard, D., Gomez, N., R.M. DeConto. and **Han. H.K.** Estimating modern elevations of Pliocene shorelines using a coupled ice sheet-earth-sea level model, *Journal of Geophysical Research: Earth Surface* (2018). dx.doi.org/10.1029/2018JF004745

PUBLICATIONS (NON-ACADEMIC)

- 20s, the Story of a Free Spirit. *Reading Times* (2010). ISBN : 9788996353423. (This book is published in the Republic of Korea. I wrote this book, of 336 pages, to share with the people in my own country the combined philosophical enlightenment I gained from walking in the Himalayas and studying abroad in Canada).

PRESENTATIONS

- **Han., H.K. (presenter)**, Gomez, N., Pollard, D. and R.M. DeConto. Snapshot talk (graduate students seminar), September 2018, Department of Earth Science, University of Bergen, Norway. Modelling ice sheet-sea level-solid Earth interactions in the Northern Hemisphere over the last glacial cycle (talk).
- Gomez, N. (presenter), Weber, M. E., Tseng, G., **Han, H.K.** and Mitrovica, J. X. SCAR and IASC Conference, June, 2018, Davos, Switzerland. Northern Hemisphere Influence on Antarctic Ice Dynamics during the Last Deglaciation (talk).
- **Han., H. K. (presenter)** and Gomez, N. American Geophysical Union (AGU) Fall meeting, December 2016, San Francisco, USA. The impact of water loading on postglacial decay times in Hudson Bay (poster).
- Han., H. K. (presenter) and Gomez, N. PALeo constraints on SEA level rise 2 (PALSEA2) 2016 meeting: Sea-level budgets at decadal to millennial time scales to bridge the paleo and instrumental records,September 2016, Oregon, USA. The impact of water loading on postglacial decay times in Hudson Bay (poster).

SCHOLARSHIPS AND GRANTS

- Travel grants, 2018: Advanced Climate Dynamics Courses,
- J. B. Lynch Fellowship, 2018-2019: McGill University, Faculty of Science, Earth and Planetary Sciences Department
- Geraldine Elizabeth Davidson Fellowship, 2017: McGill University, Earth and Planetary Sciences
- Travel grants, 2017: The Polar Earth Observing Network (POLENET) Glacial Seismology Workshop at Colorado State University
- Differential Fee Waivers for international students, 2016: McGill University, Faculty of Science
- Murata Family Fellowship, 2016: McGill University, Earth and Planetary Sciences
- Reinhardt C Fellowships, 2015-2017: McGill University, Earth and Planetary Sciences
- Robert Wares Fellowships, 2015-2016: McGill University, Earth and Planetary Sciences
- Grad Excellence Award, 2015-2016: McGill University, Earth and Planetary Sciences
- Travel grants, 2015: The Polar Earth Observing Network (POLENET) Glacial Isostatic Adjustment (GIA) Training School at Stone Laboratory, Ohio State University
- The Hymie and Roslyn Mida Student Award in Theoretical Physics, August 2015: University of Toronto, Faculty of Arts and Science
- Don Salt Scholarship, March 2015: Canadian Exploration Geophysical Society (KEGS)
- John. J. Sebisty Scholarship, November 2014: University of Toronto, St. Michaels college, Office of the president

OTHER HONOURS AND AWARDS

- Academic All-Canadian, 2015-2016, Canadian Interuniversity Sport (CIS) (which is now re-branded as U Sport)
- Academic All-Star, 2015-2016, Rseau du sport tudiant du Qubec (RSEQ)
- Principal's Student-Athlete Honour Roll, 2015-2016, McGill University

WORKSHOPS AND CONFERENCES

- Advanced Climate Dynamics Courses: Hemispheric Asymmetry in Climate, September 2018, Finse, Norway
- Arctic Change 2017 Conference, December 2017, Quebec City, Canada
- Polar Earth Observing Network (POLENET) Glacial Seismology Workshop, June 2017, Colorado, USA
- American Geophysical Union (AGU) Fall meeting, December 2016, San Francisco, USA
- PALeo constraints on SEA level rise 2 (PALSEA2) 2016 meeting: Sea-level budgets at decadal to millennial time scales to bridge the paleo and instrumental records, September 2016, Oregon, USA
- Polar Earth Observing Network (POLENET) Glacial Isostatic Adjustment (GIA) Training School, September 2015, Ohio State University, Columbus, USA
- International Conference on Women in Physics (ICWIP), August 2014 , Wilfrid Laurier University, Ontario, Canada
- Canadian Conference for Undergraduate Women in Physics (CCUWiP), January 2014, McGill University, Quebec, Canada,

TEACHING EXPERIENCE (ACADEMIC)

- Teaching assistant, General Geology (EPSC 221), 2nd year undergraduate course, Earth and Planetary Sciences Department, McGill university, September - present
- Teaching assistant (Head TA), Understanding Planet Earth (EPSC 201), 2nd year undergraduate course, Earth and Planetary Sciences Department, McGill university, January - April, 2018
- Teaching assistant, The Earth System (ESYS 104), 1st year undergraduate course, Earth and Planetary Sciences Department, McGill university, January - April, 2017
- Teaching assistant, Earth Physics (EPSC 320), 3rd year undergraduate course, Earth and Planetary Sciences Department, McGill university, September - December, 2016 and 2017
- Teaching assistant, Earthquakes and Earth Structure (EPSC 330), 3rd year undergraduate course, Earth and Planetary Sciences Department, McGill university, January - April, 2016
- Teaching assistant, Earth Inference (EPSC 340), 3rd year undergraduate course, Earth and Planetary Sciences Department, McGill university, September - December, 2015
- English teacher, Besmart Institution, Osan, South Korea, 2011
- Math and science, english teacher, Besmart Institution, Osan, South Korea, 2009-2011

TEACHING EXPERIENCE (NON-ACADEMIC)

- Head coach, "University of Toronto Taekwondo Organization (UTTO) Competitive Team", 2013-2014
- Instructor, Taekwondo, Registered Fitness Program at HartHouse, University of Toronto, 2013-2014
- Master instructor, Black Belt World (BBW) Taekwondo school, Toronto, Canada, 2011-2013

LEADERSHIP AND OUTREACH

- Departmental representative, Adams Club: Society of Earth and Planetary Graduates, Department of Earth and Planetary Sciences, McGill University, 2017-2018
- Volunteer, Bougez avec Laurent Duvenrnay-Tardif, Organizing activities and teaching children soccer, Quebec, Canada, 2017
- Social representative, Adams Club: Society of Earth and Planetary Graduates, Department of Earth and Planetary Science, McGill University, 2015-2016
- Vice president, "Physics and Astrophysics Student Union (PASU)", Department of Physics, University of Toronto, 2014-2015
- Physics experiments demonstrator, "Science Rendezvous", May 2014
- Student teaching assistant, "Canadian Association of Physicists (CAP) high school workshop", University of Toronto, March 2014
- Staff member (organizer and interpreter), "Young Global Koreans (YGK)", A team for walking across Korea, in the hope of re-unity of South and North Korea, 2011

OTHERS - ATHLETICS, ACTIVITIES AND ADVENTURES

- Player, Club de Soccer de Longueuil (AAA division), Ligue de Soccer Elite Quebec (LSEQ), Longueuil, Quebec, Canada, 2016-present
- Soccer referee, Intramural Soccer League, McGill Athletics and Recreation, McGill University, 2017-present
- Athlete (thrower), McGill Varsity Track and Field Team, McGill University, 2015-2016
- Player, ProStars FC, League1Ontario (semi-pro league), Toronto, Ontario, Canada, 2015
- Athlete, Toronto Triathlon Festival, Olympic distance triathlon event, Toronto, 2012
- Competitor, US Open Taekwondo , Las Vegas, 2012
- Member, Mountain Expedition Team (Korean Alpine Federation and Kolon Sports), first climbed an unnamed peak in Aksheerak, Kyrgyzstan, 2011
- Himalayan range trekking, Nepal: Mount Everest region (2009, 2010, 2011), Mount Annapurna region (2008, 2009), Lang-tang region (2009), India: McLeod Ganj Triund (2011)
- Author, an essay book: "20s, story of a free spirit". Published in Republic of Korea. *Reading Times,* 2010